

HESSI SPACECRAFT POWER OFF PROCEDURE

HSI_MIT_011C 2000-NOV-15 DAVE CURTIS

DRAFT

As Run on:	(Date/Time)
By	(Test Conductor)

DOCUMENT REVISION RECORD

Rev.	Date	Description of Change
В	2000-11-14	Add procedure for removing BFP
C	2000-11-15	Replace reference to SAI proc with HSI_MIT_049

Western Range/NASA Safe	ety:	Date
Project Manager:	Peter Harvey	Date
System Engineer:	David Curtis	Date
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1. INTRODUCTION

1.1 Purpose

This document describes the normal HESSI spacecraft power-off sequence to shut off the spacecraft after testing.

2. TEST PROCEDURE

2.1	Inst	trument Power Down	
,	a.	Start the "IPMT_OFF" ITOS procedure. Verify IPMT_HVDAC in the PMT ITOS page	
	•••	is set to zero.	OK
	b.	Start the "IPD_OFF" ITOS procedure. Verify IPDHVDAC is set to zero in the Particle	
		Detector ITOS page	_OK
	c.	Start the "IHV_OFF" ITOS procedure. Verify IDPU_P28HV on the IDPU Analogs	
		ITOS page is less than 1V.	_OK
	d.	Start the "IMGR_OFF" ITOS procedure. Verify that the 5 IADP_PWR settings on the	
		ADP ITOS page are all OFF	_OK
	e.	Start the "IDIB_OFF" ITOS procedure. Verify that the voltages on the IDIB ITOS page	
		are all less than 1 volt.	_OK
	f.	Verify that the ICRYOMAIN and ICRYOBAL values on the ITOS Spectrometer Power	
		page read zero. DO NOT PROCEDE OTHERWISE	_OK
	g.	Start the "SC_CPCOFF" ITOS procedure. Verify the Cryocooler status on the	
		PCBINTERFACE page indicates OFF	_OK
	h.	Start the "SC_IDPU_SPWROFF" ITOS procedure. Verify the IDPU +28V status on the	
		PCBINTERFACE page indicates OFF	_OK
	i.	Start the "SC_IDPUOFF" procedure. Verify the IDPU status on the PCBINTERFACE	
		page indicates OFF	_OK
2.2	Spa	cecraft Power Down	
		tion powers off the SSR	
	a.	In the "PCB Interfaces" ITOS telemetry display window command off the SSR	
		by clicking on the SSR "OFF" button. Verify that the status indicator for the	
		SSR changes to "OFF."	_OK
Thi	s sec	ction commands off all of the ACS components at the conclusion of the testing	
		vers down the spacecraft.	
	a.	In the "PCB Interfaces" ITOS telemetry display window command off the	
		magnetometer by clicking on the Magnetometer "OFF" button. Verify that the	
		status indicator for the magnetometer changes to "OFF."	_OK
	b.	In the "PCB Interfaces" ITOS telemetry display window command off the fine	
		sun sensor by clicking on the FSS "OFF" button. Verify that the status	
		indicator for the FSS changes to "OFF."	_OK
	c.	In the "PCB Interfaces" ITOS telemetry display window command off the	
		power to the ADB X and Z1 torque rod drivers by clicking on the Torque Rod	

	changes to "OFF."	_OK
d.	In the "PCB Interfaces" ITOS telemetry display window command off the power to the ADB Y and Z2 torque rod drivers by clicking on the Torque Rod YZ "OFF" button. Verify that the status indicator for the Torque Rod YZ changes to "OFF."	_OK
e.	In the "PCB Interfaces" ITOS telemetry display window command off NEB1 by clicking on the NEB1 "OFF" button. Verify that the status indicator for NEB1 changes to "OFF."	_OK
f.	If the BFP is installed:	
	 Adjust the TAC voltage so that the battery current reads zero on the PACI page Remove the BFP 	
g.	Power down the spacecraft per HSI_MIT_049, "Spacecraft Power On/Off Standard Operating Procedure," Section 3.3.	_OK
Comple	ted date/time:	